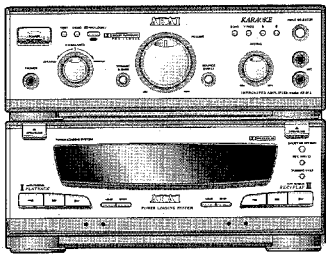
AKAI SERVICE MANUAL



DOLBY B·C NR

DOLBY SURROUND
PRO · LOGIC

MINI STEREO COMPONENT SYSTEM

STEREO DECK · AMPLIFIER

AX-810/815K

SPEAKER SYSTEM

SR-810/SR-C80/SR-S80

CONTENTS

[AX-810/815K]

SAFETY INSTRUCTIONS 3
SPECIFICATIONS 4
Ⅰ. DISASSEMBLY 5
Ⅱ. WIRE BANDING METHOD 6
Ⅲ. PRINCIPAL PARTS LOCATIONS 7
Ⅳ. REPLACEMENT OF PRINCIPAL MECHANICAL PARTS 8
Ⅴ. ADJUSTMENT 10
Ⅵ. PARTS LIST 11
Ⅶ. EXPLODED VIEW 16
Ⅷ. WIRING DIAGRAM 17
Ⅸ. BLOCK DIAGRAM 18
Ⅹ. SCHEMATIC DIAGRAM 21
Ⅺ. PCB LAYOUT 25
Ⅻ. INFORMATION OF ICs MI-COM 28

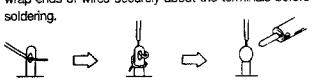
[SR-810/SR-C80/SR-S80]

Ⅰ. SPECIFICATIONS 31
Ⅱ. SCHEMATIC DIAGRAM 32
Ⅲ. PARTS LIST 33

SAFETY INSTRUCTIONS

PRECAUTIONS DURING SERVICING

1. Parts indentified by the ⚠ (*)symbol parts are critical for safety. Replace them only with parts whose numbers are specified.
2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation.
   These must also be replaced only with specified replacements.
   Examples:RF converters, tuner units, antenna selection switches, RF cables, noise-blocking capacitors, noise-blocking filters, etc.
3. Use specified internal wiring. Note especially:
   1) Wires covered with PVC tubing
   2) Double insulated wires
   3) High voltage leads
4. Use specified insulating materials for hazardous live parts. Note especially:
   1) Insulating Tape
   2) PVC tubing
   3) Spacers(insulating barriers)
   4) Insulating sheets for transistors
   5) Plastic screws for fixing micro switches
5. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering.



6. Make sure that wires do not contact heat generating parts (heat sinks, oxide metal film resistors, fusible resistors, etc.).
7. Check if replaced wires do not contact sharply edged or pointed parts.
8. Also check areas surrounding repaired parts.
9. Make sure that foreign objects (screws, solder droplets, etc,) do not remain inside the set.

MAKE YOUR CONTRIBUTION TO PROTECT THE ENVIRONMENT

Used batteries with the ISO symbol for recycling as well as small accumulators (rechargeable batteries), mini-batteries (cells) and starter batteries should not be thrown into the garbage can.
Please leave them at an appropriate depot. All other household batteries can be thrown out with the household waste.

SAFETY CHECK AFTER SERVICING

After servicing, make measurements of leakage-current or resistance in order to check if exposed parts are acceptably insulated from the supply circuit.
The leakage-current measurement should be done between accessible metal parts (such as chassis, ground terminal, microphone jacks, signal input/output connectors, etc.) and the earth ground through a resister of 1500 ohms paralleled with a 0.15μF capacitor, under the unit's normal working condition.
The leakage-current should be less than 0.5mA rms AC.
The resistance measurement should be done between accesible exposed metal parts and power cord plug prongs with the power switch "ON"(if included). The resistance should be more than 2.2Mohms.

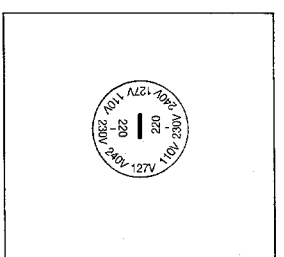
SYMBOLS FOR PRIMARY DESTINATION

Alphabet indicates the destination of the units as listed below.

Symbol	Prinncipal Destination
A	USA
B	UK
E	Europe(except, UK)
S	Australia
V	Germany
U	Universal
Y*	Custom version

VOLTAGE CONVERSION (U Y Model only)

Before connecting the power cord, set the VOLTAGE SELECTOR located on the rear panel of the AX-815K so that the correct voltage for your area is indicated.



[U, Y]

SPECIFICATIONS

[AMPLIFIER Section]

POWER OUTPUT
- FRONT ..... more than 30W (6ohm load)
- CENTER ..... more than 22W (8ohm load)
- SURROUND ..... more than 5.5W+5.5W (8+8ohm load)

TOTAL HARMONIC DISTORTION
- FRONT ..... less than 0.5% (at 28W)
- CENTER ..... less than 0.5% (at 21W)
- SURROUND ..... less than 1.0% (at 5W)

INPUT SENSITIVITY
- VCR ..... −8.8dBs (280mV)
- AUX ..... −8.8dBs(280mV)
- LD ..... −8.8dBs(280mV)
- MIC ..... −65.0dBs(0.45mV)

CHANNEL SEPARATION
- AUX ..... more than 52dB (1KHz SP out)

S/N RATIO
- AUX ..... less than 50dBs (4.7K Ω terminate)

FREQUENCY RESPONSE
- AUX ..... 10Hz-100KHz (less than −2dB)

[TAPE Section]

TRACK SYSTEM ..... 4 track, 2 channel system

WOW & FLUTTER ..... less than 0.19% (JIS, RMS(WTD)) MTT-111AN

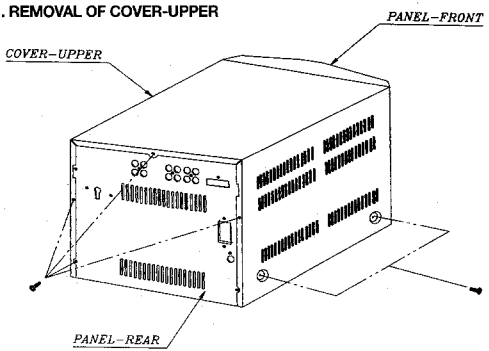
PB S/N RATIO
- NORMAL ..... more than 50dB (MTT-150 tape used)

R/P S/N RATIO
- NORMAL ..... more than 47dB (AC-224 tape used)
- CrO_2 ..... more than 48dB (AC-513 tape used)

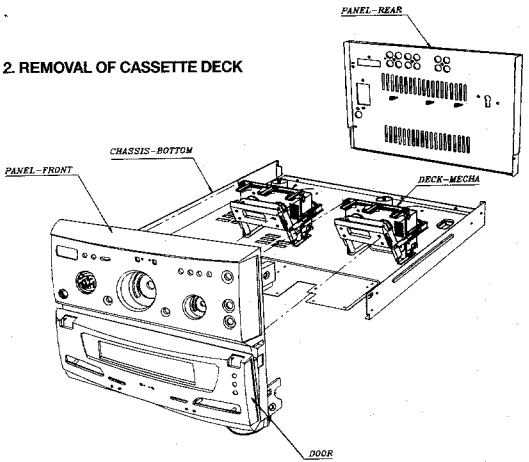
DIMENSION ..... 270(W)×209(H)×315(D)mm

WEIGHT 7.7Kg

1. REMOVAL OF COVER-UPPER

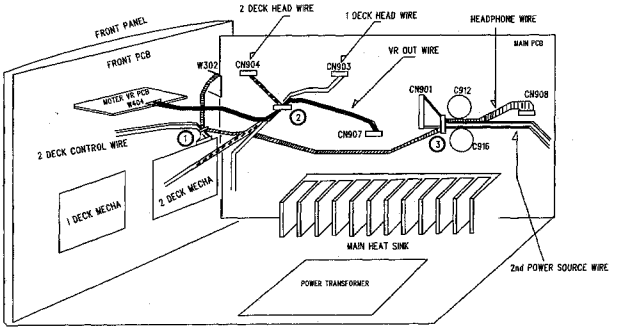


2. REMOVAL OF CASSETTE DECK



Ⅱ. WIRE BANDING METHOD

Wire banding must be performed as the below feature so that the unit is prevented from oscillating.



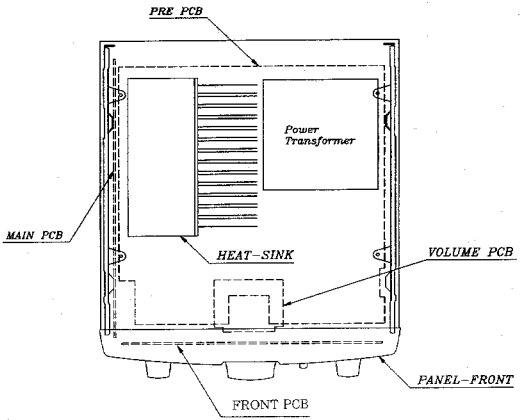
BANDING POINTS

① Headphone wire (Brown 6p) + 2 Deck cotrol wire (Gray 10p)
② VR cut wire (4p shield Gray) + 1 Deck head wire (RED) + 2 Deck head wire (1p+4p shield)
③ Headphone wire (Brown 6p) + 2nd Power source wire (11p Black)

REMARK

1 At Banding There needs some distance between tape hed wire and Headphone wire.
2 Headphone wire must be not touched on the surface of Main heat sink.

Ⅲ. PRINCIPAL PARTS LOCATIONS



Ⅳ. REPLACEMENT OF PRINCIPAL MECHANICAL PARTS

CASSETTE DECK MECHANISM

1. REPLACEMENT OF THE PINCH ROLLER BLOCK

1) Pull the PINCH ROLLER BLOCK upward(⬆) while releasing the PINCH ROLLER RETAINING HOOK.
2) Reassemble in the reverse order.

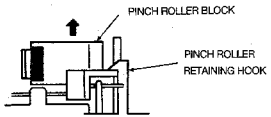


Fig. 1

2. REPLACEMENT OF THE PB HEAD (TAPE Ⅰ)

1) Remove the two HEAD RETAINING Ⓐ SCREWS.
2) Pull out the HEAD and remove the PCB.
Then, disconnect the cable.
3) Reassemble in the reverse order. After replacement, head azimuth and PB level adjustment must be performed.

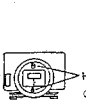


Fig. 2

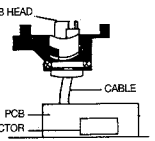


Fig. 3

3. REPLACEMENT OF THE REC/PB HEAD (TAPE Ⅱ)

1) Remove the two HEAD RETAINING Ⓐ SCREWS.
2) Pull out the HEAD and remove the PCB.
Then, disconnect the cable.
3) Reassemble in the reverse order, After replacement, head azimuth, PB level BIAS current and REC level adjustments must be performed.

Fig. 4

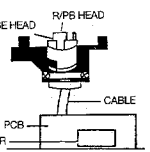


Fig. 5

4. REPLACEMENT OF THE CAPSTAN MOTOR

1) Disconnect the lead wire of the CAPSTAN MOTOR with a soldering iron.
2) Remove the CAPSTAN MOTOR RETAINING Ⓑ SCREWS, then replace the CAPSTAN MOTOR.
3) Reassemble in the reverse order and set the DRIVE BELT. After replacement, tape speed adjustment must be performed.

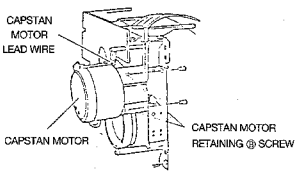


Fig. 6

5. REPLACEMENT OF THE DRIVE BELT

1) Remove the CAPSTAN MOTOR RETAINING Ⓑ SCREWS. (refer illustration Fig. 6)
2) Separate the MOTOR PCB from the MECHA BLK. Replace the DRIVE BELT.
3) Reassemble in the reverse order. After replacement, confirm the tape speed and if the result is not satisfactory, adjust the tape speed.

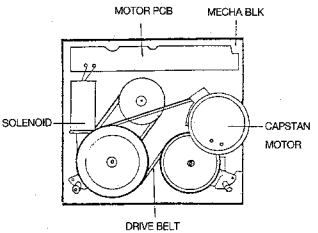


Fig. 7

1. ADJUSTMENT OF THE PB HEAD AZIMUTH ALIGNMENT (TAPE Ⅰ)

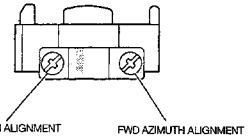


Fig. 8

1) Connect an AC milli-voltmeter to the VCR OUT and connect an oscilloscope's input CH-1 and CH-2 to the output of the AC milli-voltmeters.
2) Play back the 10kHz(−10dB), HEAD AZIMUTH ALIGNMENT TEST TAPE(MTT-114N) then adjust the PB HEAD AZIMUTH ALIGNMENT Ⓐ (FWD PLAY) and Ⓑ (REV PLAY) SCREW respectively so that the reading on the AC milli-voltmeters are at maximum and waveforms on the oscilloscope are in the same phase, in both FWD and REV directions.

2. ADJUSTMENT OF THE REC/PB HEAD AZIMUTH ALIGNMENT (TAPE Ⅱ)

1) Connect an AC milli-voltmeter to the VCR OUT and connect an oscilloscope's input CH-1 and CH-2 to the output of the AC milli-voltmeters.
2) Play back the 10kHz(−10dB), HEAD AZIMUTH ALIGNMENT TEST TAPE(MTT-114N) then adjust the REC/PB HEAD AZIMUTH ALIGNMENT Ⓐ (FWD PLAY) and Ⓑ (REV PLAY) SCREW respectively so that the reading on the AC milli-voltmeters are at maximum and waveforms on the oscilloscope are in the same phase, in both FWD and REV directions.

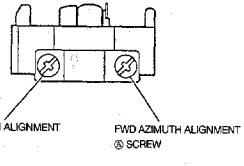


Fig. 9

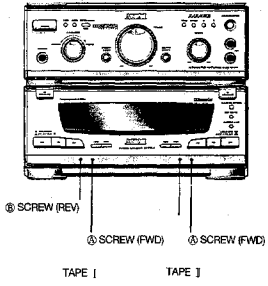


Fig. 10

CASSETTE DECK ELECTRICAL ADJUSTMENT

[PRECAUTIONS BEFORE ADJUSTMENT]

1. Before adjustment, clean and de-magnetize the heads and tape guides.
2. Use the following recording test tapes.
   Normal Tape : AC-224
   CrO_2 Tape : AC-513
3. VCR output must be terminated with resister 22KΩ.
4. Initian setting
   DOLBY NR = OFF
5. All adjustments should be performed during DECK TEST mode.
6. DECK TEST mode will be engaged while pressing and holding both DOLBY NR and TAPE1 ◁ buttons, plug in the AC power cord to the AC outlet.
   Note: In the DECK TEST mode, functionable an external input is fixed on AUX.

STEP	ADJUSTMENT
1.	TEST TAPE/INPUT SIGNAL
2.	SET STATUS
3.	TEST POINT, ADJUSTMENT PART
4.	REMARK(●) and RESULT(✱)

Adjustment Part — Test Point

1 TAPE Ⅰ SPEED

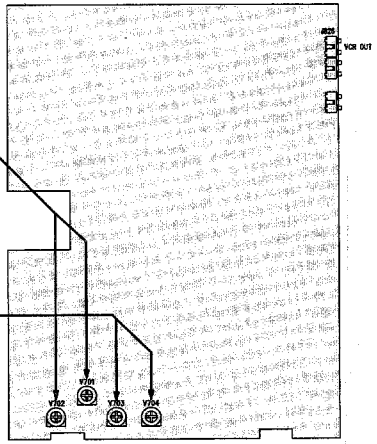
1. 3,000Hz, −4dB test tape(MTT-111NA)
2. TAPE Ⅰ, PLAY
3. VCR OUT(J826)
   HIGH SPEED = V702
   NORMAL SPEED = V701
4. # Connect a frequency counter to VCR OUT and press DUBBING button to engage ×2 speed. To resume normal speed, press DUBBING button again.
   ✱HIGH SPEED = 6040 ± 20Hz
   NORMAL SPEED = 3000 ± 10Hz

2 TAPE Ⅱ TAPE SPEED

1. 3,000Hz, −4dB test tape(MTT-111NA)
2. TAPE Ⅱ, PLAY
3. VCR OUT(J826)
   HIGH SPEED = V704
   NORMAL SPEED = V703
4. # Connect a frequency counter to VCR OUT and press DUBBING button to engage ×2 speed. To resume normal speed, press DUBBING button again.
   ✱HIGH SPEED = 6020 ± 20Hz
   NORMAL SPEED = 2990 ± 10Hz

4 HEAD AZIMUTH ADJUSTMENT

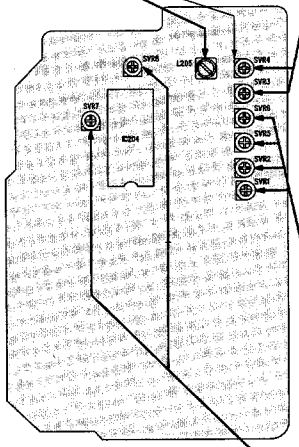
1. (10KHz, -10dB) test tape (MTT-114NA)
2. TAPE Ⅰ / Ⅱ PLAY
3. VCR OUT,HEAD AZIMUTH ALIGNMENT SCREW.
4. # Connect a AC milli-voltmeter to LINE OUT.
   ✱Maximum output level.



PRE PC BOARD (A1U-364)

5 BIAS FREQUENCY

1. No signal input
2. TAPE Ⅱ, REC (CrO_2)
3. SVR4, L205
4. # Pick SVR4 Lead with a frequency counter probe.
   ✱100KHz ± 0.2KHz



MAIN PC BOARD (A1U-370)

7 REC BIAS Normal

1. Normal tape(AC-224)/1KHz and 10KHz, −31.8dBs (VCR OUT LEVEL)
2. REC/PAUSE → REC → REW → PLAY
3. VCR OUT / SVR3(L), SVR4(R)
4. # Connect a frequency oscillator to AUX input and connect an AC milli-voltmeter VCR OUT. In the REC/PAUSE mode, adjust a frequency oscillator so that a frequency counter leads to −31.8dBs.
   Recording 1KHz and 10KHz alternately.
   Press REW button, then, unit will start playback automatically.
   ✱Level difference between 1KHz and 10KHz is ± 0.2dBs
   %After this adjustment,confirm REC LEVEL again.

8 REC BIAS (CrO_2)

1. CrO_2 tape(AC-513)/1KHz and 10KHz, −31.8dBs(VCR OUT LEVEL)
2. REC/PAUSE → REC → REW → PLAY
3. TAPE Ⅱ's FWD and REV buttons
4. ●Connect a frequency oscillator to AUX input and connect an AC milli-voltmeter to VCR OUT. In the REC/PAUSE mode, adjust a frequency oscillator so that a frequency counter leads to −31.8dBs.
   Recording 1KHz and 10KHz alternately.
   Press REW button, then unit will start playback automatically.
   Press TAPE Ⅱ's FWD and REV buttons until 1KHz and 10KHz levels become flat.
   ✱Level difference between 1KHz and 10KHz is ± 0.5dB.

3 PB LEVEL

1. 400Hz, Dolby level tape (MTT-150)
2. TAPE Ⅰ / Ⅱ, PLAY
3. VCR OUT(J826)
   TAPE Ⅰ = SVR1(L), SVR2(R)
   TAPE Ⅱ = SVR5(L), SVR6(R)
4. # Connect an AC milli-voltmeter to VCR OUT.
   ✱-3.0dBs ± 0.2dBs

6 REC LEVEL

1. Normal tape(AC-224)/1KHz (AUX INPUT), -9.8dBs (VCR OUT LEVEL)
2. REC/PAUSE → REC → REW → PLAY
3. VCR OUT/SVR7(L), SVR8(R)
4. # Connect a frequency oscillator to AUX input and connect an AC milli-voltmeter VCR output In the REC/PAUSE mode, adjust a frequency oscillator so that an AC milli-voltmeter leads to −9.8dBs.
   ✱ −6.0dBs ± 0.2dBs (387.5mV)

ATTENTION

1. When placing an order for parts, be sure to list Part NO., Model No., and the description of each part. Otherwise, the non-delivery of the part or the delivery of a wrong part may result.
2. Please make sure that Part No. is correct when ordering. If not, a part different from the one you ordered may be delivered.

[NOTE]

The Recommended Spare Parts List shows those parts in the Parts List which are considered particularly important for service.

WARNING

⚠(*) INDICATED SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS.

AVERTISSEMENT

⚠(*) IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉDE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LÉ FABRICANT.

Ⅳ. PARTS LIST

1. RECOMMENDED PARTS

Ref. No.	Part No.	Description
	ACAC-00063-000	CORD-AC
		IKP-419C YH396-03A[E]
	ACAC-00093-003	CORD-AC
		CW3202 YH-396-03A[U.Y]
6003	DECA-00480-002	DECK MECHA
		ADR2124TR R/P DECK
6004	DECA-00490-002	DECK MECHA
		ADR2125TR PB-DECK
6005	EMWG-00120-120	MOTOR
6006		RF-370CA-15370 12V 4850rpm
F301	FGFB-S1252-137	FUSE GLASS
F302		1.25A 250V FST034.3118
6007	LLA3-10351-G20	CARD CABLE
		FFC-AD P1.25 L350 10P
PT301	PTAJ-02790-Y4U	TRANSFORMER-POWER
		A74-279CY-U 115/230V 50/60[U.Y]
	PTAJ-02790-Y4V	TRANSFORMER-POWER
		A74-279CY-V 230V 50Hz[E.B]
6008	SWLF-00161-AS0	SWITCH-LEAF
6009		LSA-2127E
	SWVS-00110-SA9	SWITCH-VOLTAGE SEL
		ESE-37316 250V 10A[U.Y]
ME002	MEAC-03960-ZZ2	DOOR-FRONT(AL)
		AL
ME003	MEAC-03971-ZZ2	PANEL-FRONT(AL)
		AX-815K G
C916	CEEC-H332M-MT1	CAPACITOR E/ALUMINUM
		3300uF M 42V 18 × 40 C
C904	CEEM-F102M-KN1	CAPACITOR E/ALUMINUM
C915		1000uF M 25V 13 × 20 U M
C912	CEEM-F222M-HP1	CAPACITOR E/ALUMINUM
		SHL 2200uF M 25V 12.5 × 25 M
C901	CEES-H472M-030	CAPACITOR E/ALUMINUM
C902		SHL42VB 4700(M) 18 × 40 T
D920	DDTZ-G091B-S00	DIODE ZENER
D921		MTZ9.1B 9.01 DO40 T
D930	DO4B-00250-SJ0	DIODE-BRIDGE
		RBV-402 200V 4A BRIDGE
FG101	FGFB-S2002-137	FUSE GLASS
FG102	-	2A 250V FST034.3120 T
IC906	ICHP-00070-S10	IC UYBRID AMP-POWER
IC907		STK4142 [25W × 2 SIP18
IC204	ICLN-01900-SA0	IC TAPE PROCESSOR
		HA12155NT DIP64
IC104	ICPR-00040-SO0	IC PROTECTOR
		ICP-N15-0.6A SIP2
IC904	ICRG-00081-SE0	IC REGULATOR
		KA7924 24V 3mm TO-220
IC103	ICRG-00091-SE0	IC REGULATOR
		KA7806 6V 3mm TO-220
IC902	ICRG-00191-SE0	IC REGULATOR
		KA7912 12V 3mm TO-220
IC901	ICRG-00218-SE0	IC REGULATOR
IC903		KA7812 12V 3A TO-220
IC905	ICRG-00240-SE0	IC REGULATOR
		MC78L05 5V TO-92
R939	RCMM-JR22K-4A0	RESISTOR-CEMENT
R940		MPR26 2W 0.22K
R973		
R974		
R936	RFUE-F560G-1B0	RESISTOR-FUSIBLE
R970		56ohm NFR25 1/4W R-FORMING
Q901	TRSA-0023Y-SD0	TRANSISTOR P-H FREQ
Q904		KTA1658-Y TO220IS
Q902	TRTA-0012Y-SD0	TRANSISTOR P-H FREQ
Q903		KTA1273-Y TO92L
Q219	TRTC-0094L-SD0	TRANSISTOR N-H FREQ
Q220		KTC3199-BL TO92M
Q221		
Q222		
Q217	TRTC-01260-S10	TRANSISTOR N-H FREQ
Q218		2SC3331 TO92
Q225	TRTD-00200-SD0	TRANSISTOR N-L FREQ
Q226		KTD-1302 TO92
Q911		
Q912		
Q915		
Q916		
Q917		
Q920		
SVR1	VFEB-A001B-472	RESISTOR-SEMI FIXED
SVR2		EVN DXA A03 BQ3 4.7Kohm
SVR5		
SVR6		
SVR3	VFEB-A019B-473	RESISTOR-SEMI FIXED
SVR4		EVN DCA A03 47K
D704	DDTZ-G068B-S00	DIODE ZENER
		MTZ6.8B 6.49 6.83 DO40 T
IC508	ICCM-00240-S30	IC VOLUME
		TC9299P DIP16
IC608	ICCM-00250-S10	IC CMOS LSI
		LC7527E QFP64E
IC611	ICCM-00400-UA0	IC EEPROM
		24LC02B1P
IC606	ICCM-20010-SQ0	IC HEX INVERTERS
		GD74HC04 DIP14
IC704	ICCM-20190-SQ0	IC 2/INPUT NAND GATE
		GD74HC00 DIP14
IC703	ICDG-01460-S90	IC LCHIP DIGITAL
		M65843P DIP24
IC511	ICDG-01490-S90	IC DIGITAL
		M65840SP DIP28[U.Y]
IC602	ICDG-01590-SG0	IC REMOTE TRANS
		NJM1102P QFP64
IC701	ICLN-01610-SB0	IC MOTOR DRIVER
IC702		BA 6209N SIP10
IC613	ICLN-01810-S40	IC VOCAL FADER
		CXA1642P DIP8[U.Y]
IC508	ICLN-01910-SB0	IC LINEAR
		BA3826S DIP18
IC609	ICRG-00211-SE0	IC REGULATOR
		KA7806 6V 3mm TO-220
IC616	ICRG-00490-SD0	IC REGULATOR
		KA7908 TO-220/REG
R693	RMOH-H470J-100	RESISTOR-METAL OXIDE
		47ohm 1W 5%
Q611	TRTA-0012Y-SD0	TRANSISTOR P-H FREQ
Q614		KTA1273-Y TO92L
Q707		
Q709		
Q711		
Q713		
Q715		
Q507	TRTC-0016Y-SD0	TRANSISTOR N-H FREQ
Q612		KTC3198-Y TO92
Q613		

Ref. No.	Part No.	Description
Q606	TRTC-0039Y-SD0	TRANSISTOR N-H FREQ KTC3205-Y TO92L
Q505	TRTA-0008Y-SD0	TRANSISTOR P-H FREQ KTA1266-Y TO92
Q601	TRTD-00200-SD0	TRANSISTOR N-L FREQ
Q602		KTD-1302 TO92
VR401	VWBD-E107A-104	VR W/MOTOR RK16814MG-00114A 100K×4
SW431	SWTA-00350-060	SWITCH-TACT
SW432		SKHV 10906A
SW433		
SW434		
SW435		
SW436		
SW437		
SW438		
SW439		
SW440		
SW441		
SW442		
SW443		
FL401	DPFL-00490-00P	DISPLAY FLUORSCENT SUA-14MM01 AMP FLD
D301	DDTR-00040-T10	DIODE RECTIFIER
D302		1N4004(400V 1A)
D303		
D304		
D305		
D306		
D307		

2. PC BOARD BLOCK

Ref. No.	Part No.	Description
1	A2CC-F6000-A2E	MAIN PCB (E, U, Y-version)
2	A2CC-F6000-A3E	PRE PCB (AX-810 E-version)
	A2CC-F6004-A3Z	PRE PCB (AX-815K U, Y-version)
3	A2CC-F6000-A4E	FRONT PCB (AX-810 E-version)
	A2CC-F6004-A4Z	FRONT PCB (AX-815K U, Y-version)

3. PC(#)-MAIN (A1U-370)

Ref. No.	Part No.	Description
D906	DDTR-00040-T10	DIODE RECTIFIER
D907		1N4004(400V 1A) DO-41 T
D908		
D909		
D916		
D917		
D918		
D919		
D939		
D201	DDTS-00060-S00	DIODE-SI
D202		1SS131 (90V 0.13A) DO-40 T
D203		
D204		
D205		
D206		
D300		
D922		
D923		
D924		
D925		
D926		
D927		
D928		
D929		
D931		
D932		
D934		
D935		
D937		
D938		
D920	DDTZ-G091B-SC0	DIODE ZENER
D921		MTZ 9.1B 9.01
D903	DD4B-00250-SJ0	DIODE BRIDGE RBV 402 200V 4A
F101, 102	FQFB-S2002-137	FUSE GLASS 2A 250V FST 034, 3120
IC906	ICHP-00070-S10	IC HYBRID AMP-POWER
IC907		STK4142 Ⅱ 25W×2
IC204	ICLN-01900-SA0	IC TAPE PROCESSOR HA12155NT DIP64
IC904	ICRG-00081-SE0	IC REGULATOR KA7924 24V TO-220
IC103	ICRG-00091-SE0	IC REGULATOR KA7806 6V TO-220
IC902	ICRG-00191-SE0	IC REGULATOR KA7912 12V TO-220
IC901	ICRG-00218-SE0	IC REGULATOR
IC903		KA7812 12V TO-220
IC905	ICRG-00240-SE0	IC REGULATOR MC78L05 5V TO-92
IC203	ICLN-01940-TC0	IC SHIFT/STORE RESIS MC14094BCP DIP16
IC201	ICOP-00433-SG0	IC OP AMP
IC202		NJM2068LD SIP8
L901	KIBK-00050-E40	COIL-AUDIO CHOCK
L902		ABK005 2.2uH
L903		
L904		
L203	KIMI-00010-E60	COIL-AUDIO IF TRAP
L204		100Z-121 100KHz
L205	KIRO-00310-E60	COIL-REC OSC ARO-031 7mm-CAN
JK903	SKRC-00490-010	SOCKET-RCA LC010126BN 1P
J902	TESP-00010-08P	TERMINAL SPEAKER AU8-2021
Q913	TRTA-0008G-SD0	TRANSISTOR P-H FREQ
Q914		KTA1266-GR TO92
Q918		
Q919		
Q223	TRTA-0042E-S0S	TRANSISTOR P-H FREQ
Q224		DTA124E-S TO92M
Q227		
Q908		
Q922		
Q923		
Q925		
Q927		

Ref. No.	Part No.	Description
Q211	TRTC-0016G-SD0	TRANSISTOR N-H FREQ
Q212		KTC3198-GR TO92
Q905	TRTC-0061E-S0S	TRANSISTOR N-H FREQ
Q906		DTC124E S TO92M
Q907		
Q909		
Q910		
Q921		
Q924		
Q926		
Q201	TRTC-0070Z-S0S	TRANSISTOR N-H FREQ
Q202		DTC143Z S W/RESIST TO92M
Q205	TRTC-0074T-S0S	TRANSISTOR N-H FREQ
Q206		DTC143T S W/RESIST TO92M
Q213		
Q214		
Q209	TRTK-0012G-S30	FET N-CHANNEL
Q210		2SK372GR/BR

4. PC(#)-PRE (A1U-364)

Ref. No.	Part No.	Description
D602	DDTR-00040-T10	DIODE-RECTIFIER
D603		1N4004(400V 1A) DO-41 T
D708		
D501	DDTS-00060-S00	DIODE-SI
D502		1SS131 (90V 0.13A) DO-40 T
D503		
D504		
D601		
D604		
D607		
D608		
D609		
D702		
D703		
D705		
D706		
IC502	ICLN-01950-TC0	IC 8CH MUX/DEMUX
IC503		MC14051BCP DIP16
IC510	ICLN-01940-TC0	IC SHIFT/STORE RESIS
IC604		MC14094BCP DIP16
IC605		
IC501	ICLN-01970-TC0	IC QUAD SWITCH
		MC14066BCP DIP14
IC504	ICLN-01980-TC0	IC ANALOG MUX/DEMUX
IC505		MC14053BCP DIP16
IC507		
IC512		
	ICLN-01960-TC0	IC 4CH MUX/DEMUX
		MC14052BCP DIP16
IC708	ICMP-01580-S90	IC MICRO COMPUTER
		M3818MA 271FP QEP100
IC607	ICOP-00130-SE0	IC DUAL OP AMP
IC612		KA4558S SIP9
IC709		
IC710		
X602	KTRE-00160-060	RESONATOR
		CST6.00MGW 6.00MHz
X501	KTRE-00260-160	RESONATOR
		CST16.00MXW0C1
Q608	TRTA-0041E-S0S	TRANSISTOR P-H FREQ
Q609		DTA144E-S W/RESIST TO92M
Q610		
Q728		
Q501	TRTA-0043E-S0S	TRANSISTOR P-H FREQ
Q503		DTA144E-S W/RESIST TO92M
Q603		
Q605		
Q607	TRTC-0060E-S0S	TRANSISTOR N-H FREQ
		DTC144E-S TO92M
Q502	TRTC-0061E-S0S	TRANSISTOR N-H FREQ
Q504		DTC124E-S TO92M
Q604	TRTC-0062E-S0S	TRANSISTOR N-H FREQ
Q701		DTC114E-S W/RESIST TO92M
Q704		
Q705		
Q706		
Q708		
Q710		
Q712		
Q714		
Q716		
Q718		
Q721		
Q722		
Q719	TRTC-0075T-S8S	TRANSISTOR N-H FREQ
Q720		DTC114T-S W/RESIST TO92M
V701	VFEB-A001B-222	RESISTOR-SEMI FIXED
V702		EVN DXA A03 BE3 2.2Kohm
V703		
V704		

5. PCB(#)-MOTOR VR (A1U-369D)

Ref. No.	Part No.	Description
IC403	ICOP-00430-SG0	IC LOW NOISE DUAL OP
IC404		NJM 2068L SIP8
IC405		

6. PCB(#)-FRONT (A1U-369B)

Ref. No.	Part No.	Description
LD431	DPLT-00670-MC3	DOT LED
LD432		SLH-38MC3 GRN 3.1PI
LD433	DPLT-00740-YY3	LED LAMP
LD434		SLH-34DC3 AMBER
LD435		
IC402	ICOP-00131-SE0	IC DUAL OP AMP
		KA4558C DIP8
JK401	SKPH-00380-360	SOCKET PHONE
JK402		HSJ1406-01-010
Q431	TRTC-00061E-S0S	TRANSISTOR
Q432		DTC 124E-S
Q433		
Q434		

7. PCB(#)-EQ DISPLAY (A1U-369A)

Ref. No.	Part No.	Description
D401	DDTS-00060-S00	DIODE SI
D402		1SS131 (90V 0.13A)
D403		
IC401	ICCM-00220-U50	IC CMOS DRIVER
		MN12510F QFP44P
SW401	SWTA-00350-060	SWITCH TACT
SW402		SKHV 10906A
SW403		
SW404		

Ref. No.	Part No.	Description
SW405		
SW406		
SW407		
SW408		
SW409		
SW410		
SW411		
SW412		
SW413		
SW414		
SW415		

8. PCB(#)-P/T (A1U-369C)

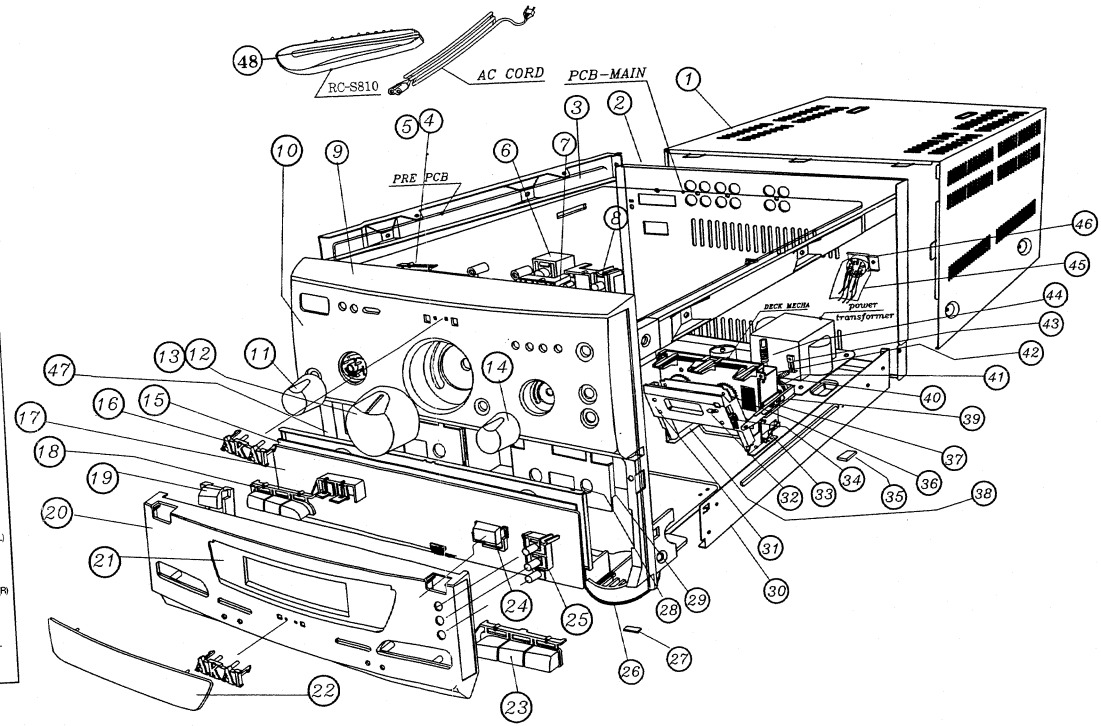
Ref. No.	Part No.	Description
LF301	KIBK-00180-E40	COIL-AUDIO CHOCK LF-4D 102 102uH

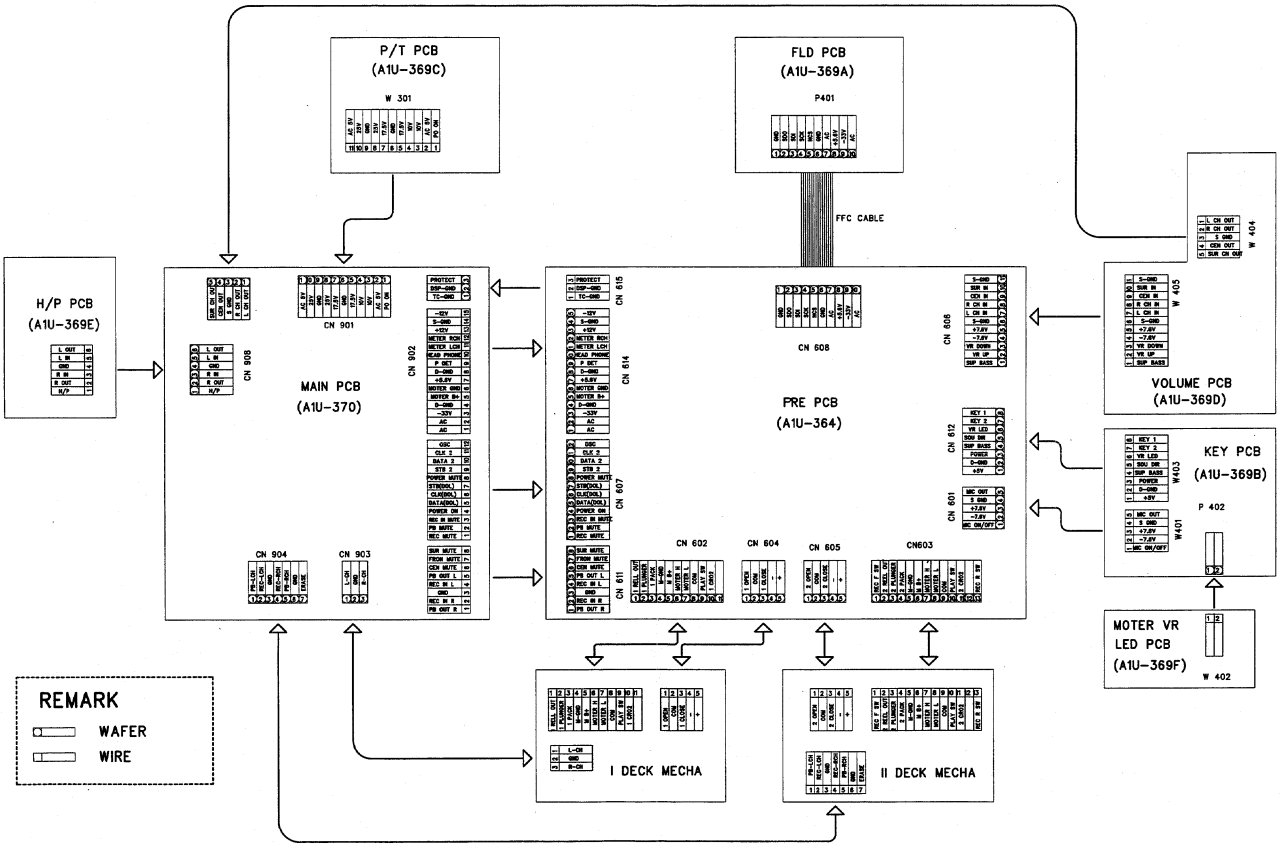
9. PCB(#)-REMOTE (A4E-245)

Ref. No.	Part No.	Description
ID001	DPIR-00021-005	DOT IR LED KLN105B-B
IC001	ICMP-01290-S00	IC-UCOMPUTER BU2478-36
CX001	KTRE-00271-004	RESONATOR ZTB455ET2 L-TYPE
Q001	TRTC-0016L-SD0	TRANSISTOR N-H FREQ KTC3198-BL TO92

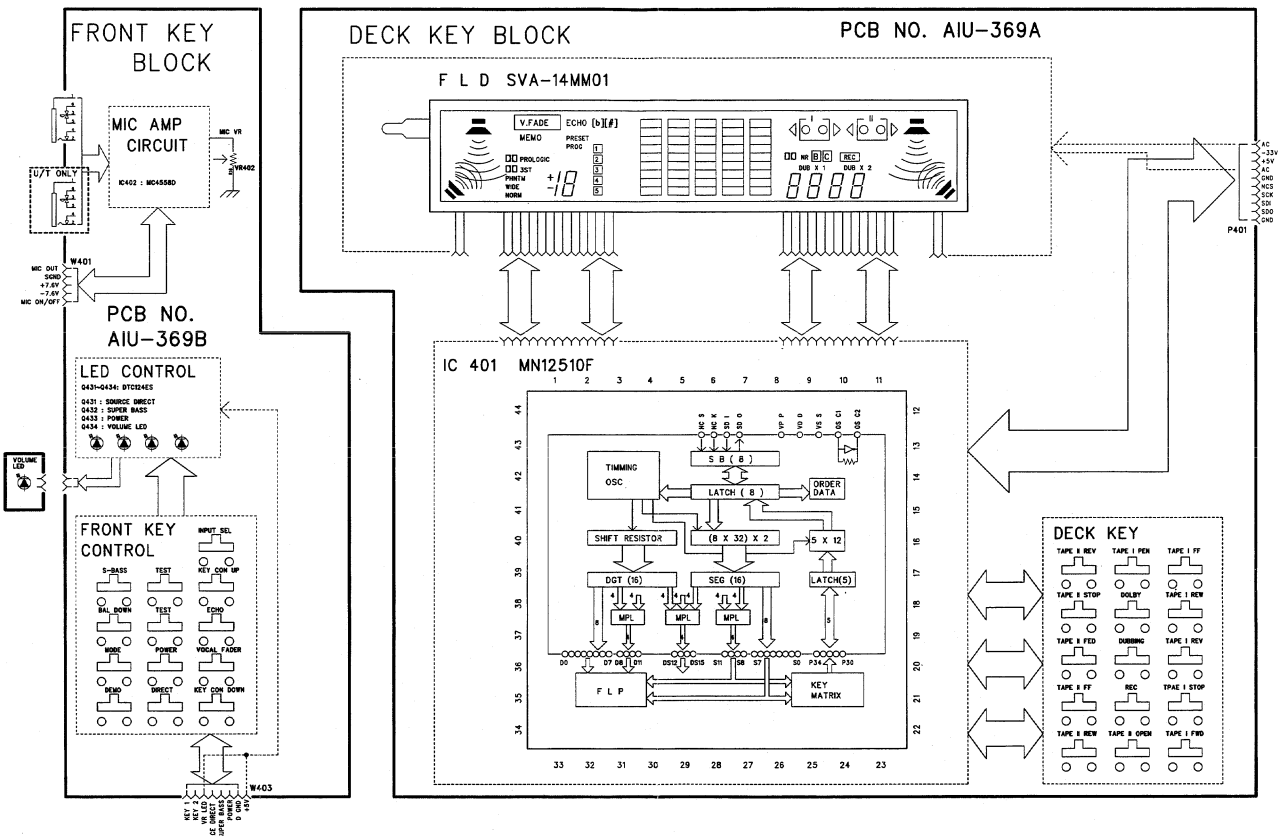
Ⅶ. EXPLODED VIEW

Ref. No.	Part No.	Description
1	MPAC-04010-ZZ1	COVER-UPPER
2	MPAC-04025-ZZ1	PANEL-REAR AX-815K
3	MPAC-04020-003	CHASSIS-SIDE
4	MJAF-02710-ZZ2	KNOB-POWER
5	MAAF-06470-ZZ3	LENS-POWER
6	MJAF-06440-ZZ3	KNOB-DIRECT
7	MJAF-06410-ZZ3	KNOB-KARAOKE (U, Y)
8	MJAF-06400-ZZ3	KNOB-INPUT
9	MJAF-04670-ZZ1	PANEL-BASS AX-815K
10	MEAC-03970-ZZ2	PANEL-FRONT(AL)
11	MJAF-13870-ZZ4	KNOB-MIC
12	MJAF-06380-ZZ3	KNOB-VOLUME
13	MAAF-06430-ZZ3	LENS-VOLUME
14	MJAF-06390-ZZ3	KNOB-PROLOGIC
15	YGAP-06470-003	SHIELD-PLATE
16	MJAF-05530-ZZ3	NAME-PLATE-AKAI
17	MJAG-00370-ZZ2	COVER-DOOR
18	MJAF-04700-ZZ1	KNOB-DECK-L
19	MJAF-06450-ZZ3	KNOB-EJECT(L)
20	MEAC-03960-ZZ2	DOOR-FRONT(AL)
21	MJAF-04680-ZZ1	DOOR BASS
22	MAAF-02720-ZZ2	WINDOW-DOOR
23	MJAF-04710-ZZ1	KNOB-DECK-R
24	MJAF-06460-ZZ3	KNOB-EJECT(R)
25	MJAF-06420-ZZ3	KNOB-DOLBY
26	MMAC-14490-ZZ4	RING FOOT
27	MRAG-11130-004	CUSHION-FOOT
28	MGAF-04940-ZZ4	REFLECTOR-TAPE
29	MRAG-10960-004	CUSHION-DOOR
30	MPAC-03941-001	CHASSIS
31	MJAF-04690-ZZ1	HOLDER-CASSETTE
32	MJAF-11550-004	ROLLER
33	MMAC-13760-004	SP-TORSION EJECT
34	MMAC-13750-004	SP-PUSH CASSETTE
35	MRAG-10920-004	CUSHION-FOOT REAR
36	MPAC-13730-004	PLATE-LID
37	MJAG-01380-003	PLATE-EJECT
38	MPAC-03500-002	CHASSIS-MECHA SIDE(L)
39	MPAC-03510-003	ARM-EJECT
40	MMAC-13740-004	SP-PUSH CAM GEAR
41	MJAG-00340-002	CAM GEAR-EJECT
42	MPAC-03491-002	CHASSIS-MECHA SIDE(R)
43	SWLF-00161-AS0	SWITCH-LEAF
44	MJAG-01390-003	WORM
45	ZUVC-32005-501	TUBE INSULATION
46	SWVS-00110-SA9	SWITCH-VOLTAGE SEL
47	MMAC-13700-004	SP-PULL DOOR
48	A2RC-F6000-01E	REMOCON RC-S810

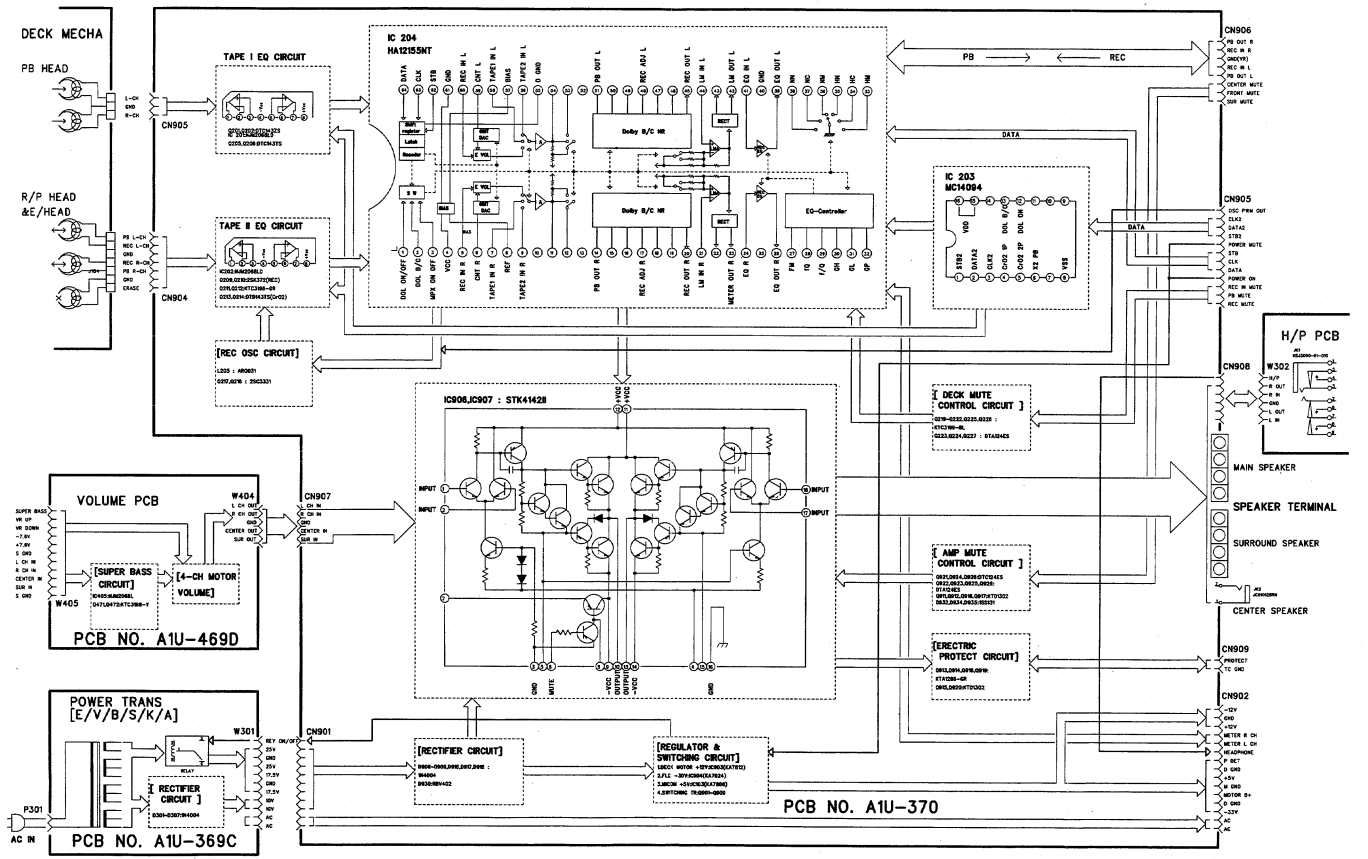



P/T PCB
(A1U-369C)
W 301
FLD PCB
(A1U-369A)
P401
FFC CABLE
H/P PCB
(A1U-369E)
MAIN PCB
(A1U-370)
CN 901
CN 902
CN 903
CN 904
CN 905
CN 906
PRE PCB
(A1U-364)
CN 601
CN 602
CN 603
CN 604
CN 605
CN 606
CN 607
CN 608
CN 611
CN 612
CN 614
CN 615
VOLUME PCB
(A1U-369D)
W 404
W 405
KEY PCB
(A1U-369B)
W 403
W 401
P 402
MOTER VR
LED PCB
(A1U-369F)
W 402
I DECK MECHA
II DECK MECHA
REMARK
WAFER
WIRE

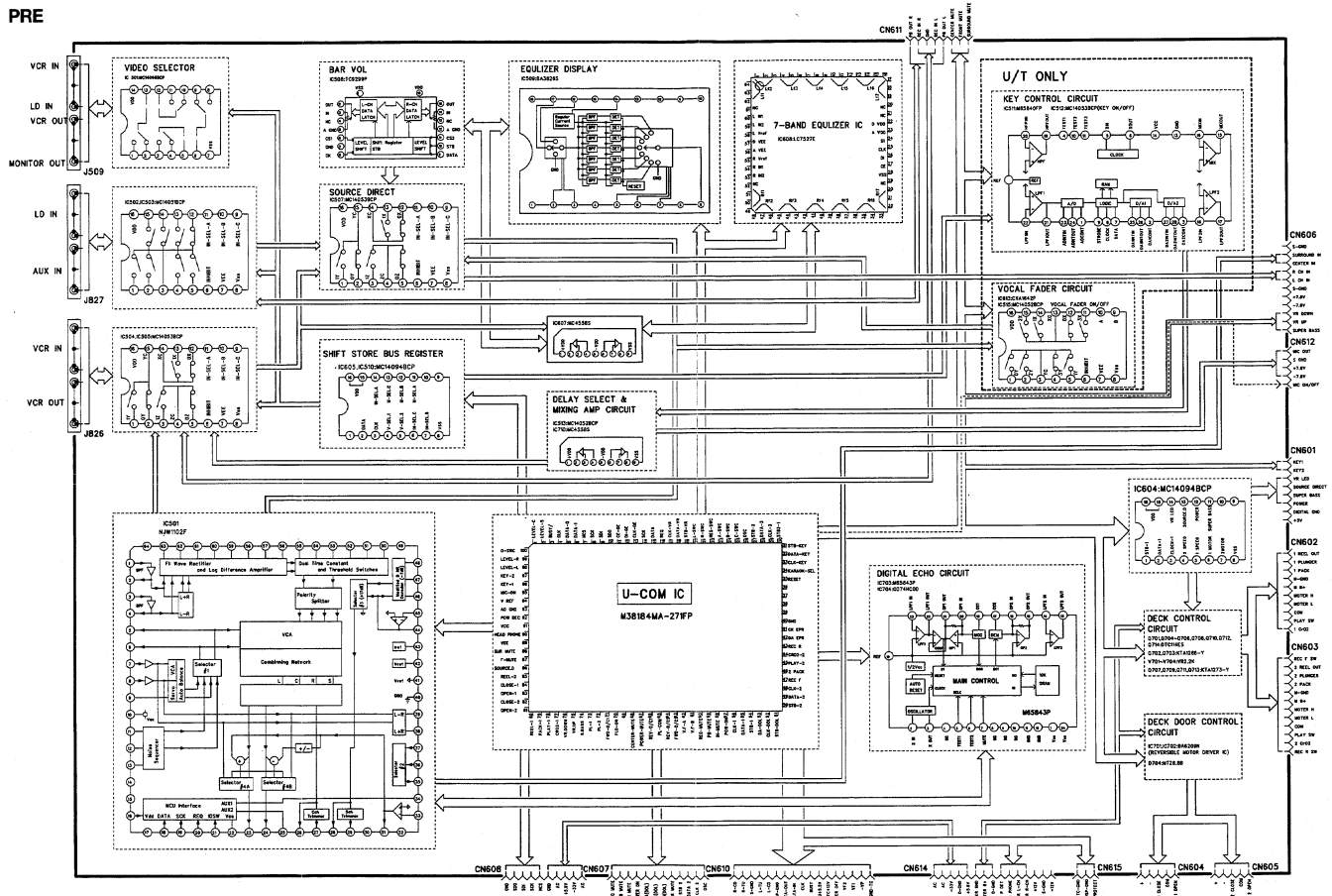
FRONT


FRONT KEY BLOCK
MIC AMP CIRCUIT
MIC VR
VR402
U/T ONLY
IC402 : MC4558D
W401
MIC OUT
SGND
+7.6V
-7.6V
MIC ON/OFF
PCB NO. AIU-369B
LED CONTROL
0431~0434: BTC0204ES
0431 : SOURCE DIRECT
0432 : SUPER BASS
0433 : POWER
0434 : VOLUME LED
VOLUME LED
FRONT KEY CONTROL
INPUT SEL
S-BASS
TEST
KEY CON UP
BAL DOWN
TEST
ECHO
MODE
POWER
VOCAL FADER
DEMO
DIRECT
KEY CON DOWN
W403
KEY 1
KEY 2
VOL I/O
SOURCE DIRECT
SUPER BASS
POWER
D GND
VOL +5V
DECK KEY BLOCK
PCB NO. AIU-369A
F L D SVA-14MM01
V.FADE
ECHO
MEMO
PRESET PROG
PROLOGIC
3ST
PHNTM
WIDE
NORM
DUB X 1
DUB X 2
REC
P401
AC
-33V
+5V
AC
GND
NCS
SCK
SDI
SDO
GND
IC 401 MN12510F
TIMMING OSC
S B (8)
LATCH (8)
ORDER DATA
SHIFT RESISTOR
(8 X 32) X 2
5 X 12
DGT (16)
SEG (16)
LATCH(5)
MPL
MPL
MPL
F L P
KEY MATRIX
DECK KEY
TAPE II REV
TAPE I PEN
TAPE I FF
TAPE II STOP
DOLBY
TAPE I REW
TAPE II FED
DUBBING
TAPE I REV
TAPE II FF
REC
TPAE I STOP
TAPE II REW
TAPE II OPEN
TAPE I FWD

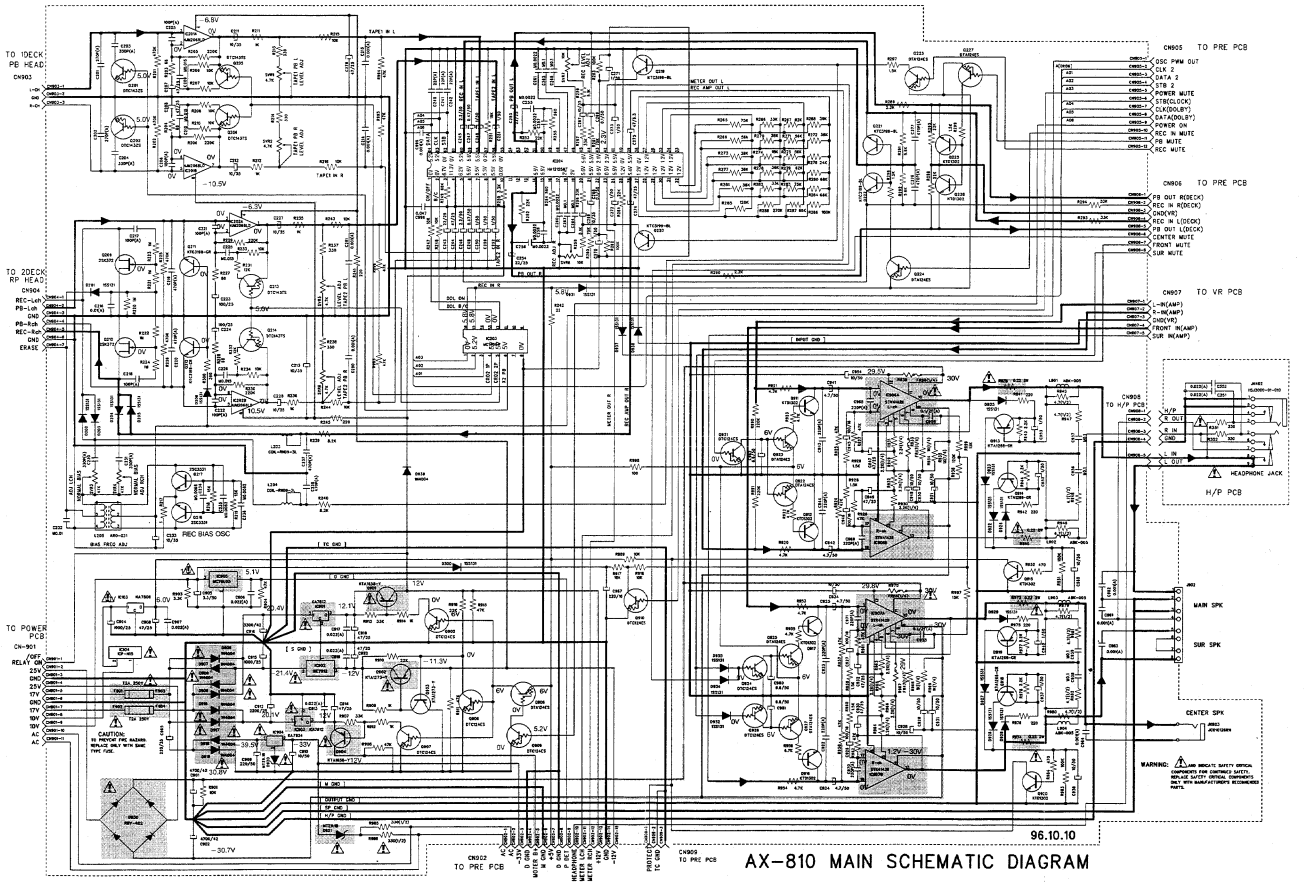
MAIN

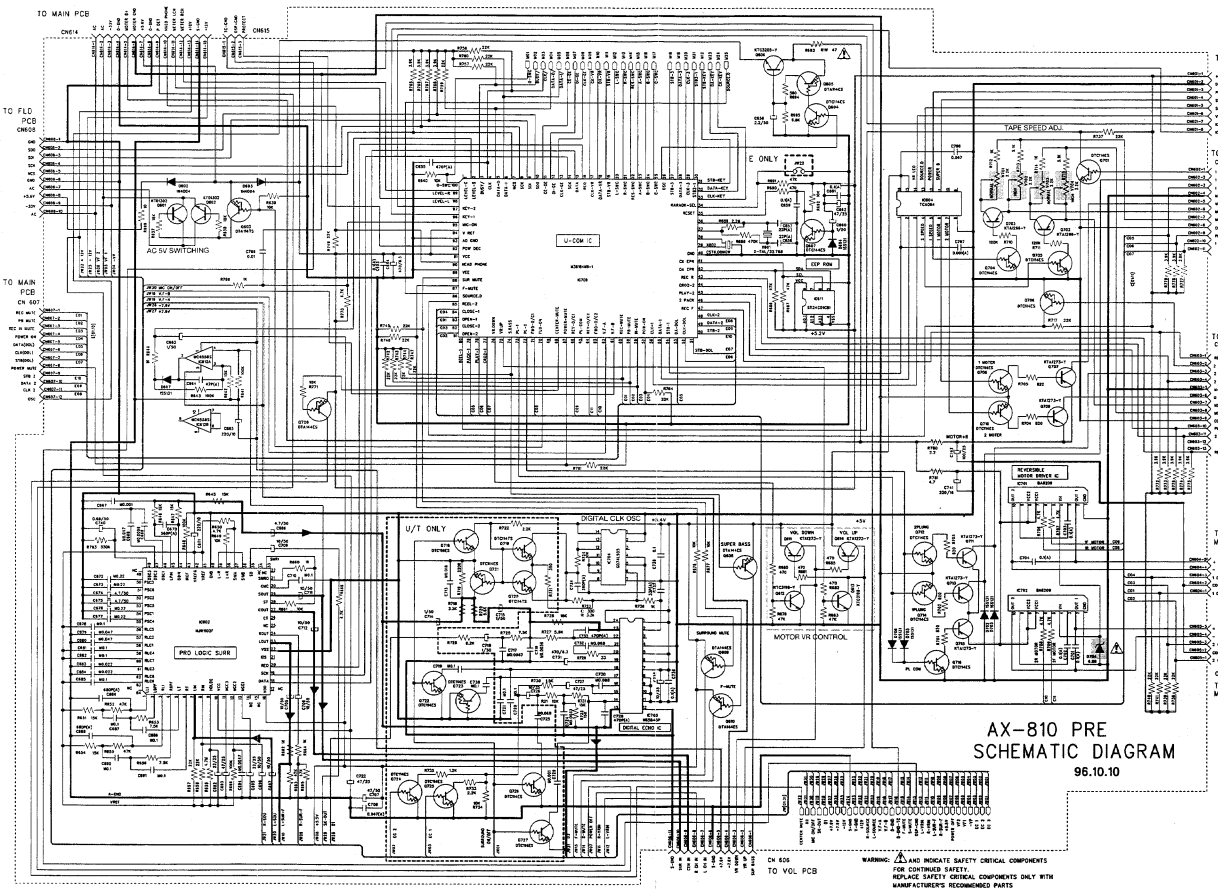

DECK MECHA
PB HEAD
R/P HEAD &E/HEAD
CN905
CN904
TAPE I EQ CIRCUIT
TAPE II EQ CIRCUIT
[REC OSC CIRCUIT]
IC 204
HA12155NT
IC 203
MC14094
Dolby B/C NR
EQ-Controller
PB
REC
DATA
CN906
CN905
CN908
H/P PCB
W302
MAIN SPEAKER
SPEAKER TERMINAL
SURROUND SPEAKER
CENTER SPEAKER
[DECK MUTE CONTROL CIRCUIT]
[AMP MUTE CONTROL CIRCUIT]
[ERECTRIC PROTECT CIRCUIT]
IC906,IC907 : STK41428
VOLUME PCB
W404
W405
CN907
[SUPER BASS CIRCUIT]
[4-CH MOTOR VOLUME]
PCB NO. A1U-469D
POWER TRANS [E/V/B/S/K/A]
W301
CN901
P301
AC IN
[RECTIFIER CIRCUIT]
[REGULATOR & SWITCHING CIRCUIT]
CN909
CN902
PCB NO. A1U-370
PCB NO. A1U-369C

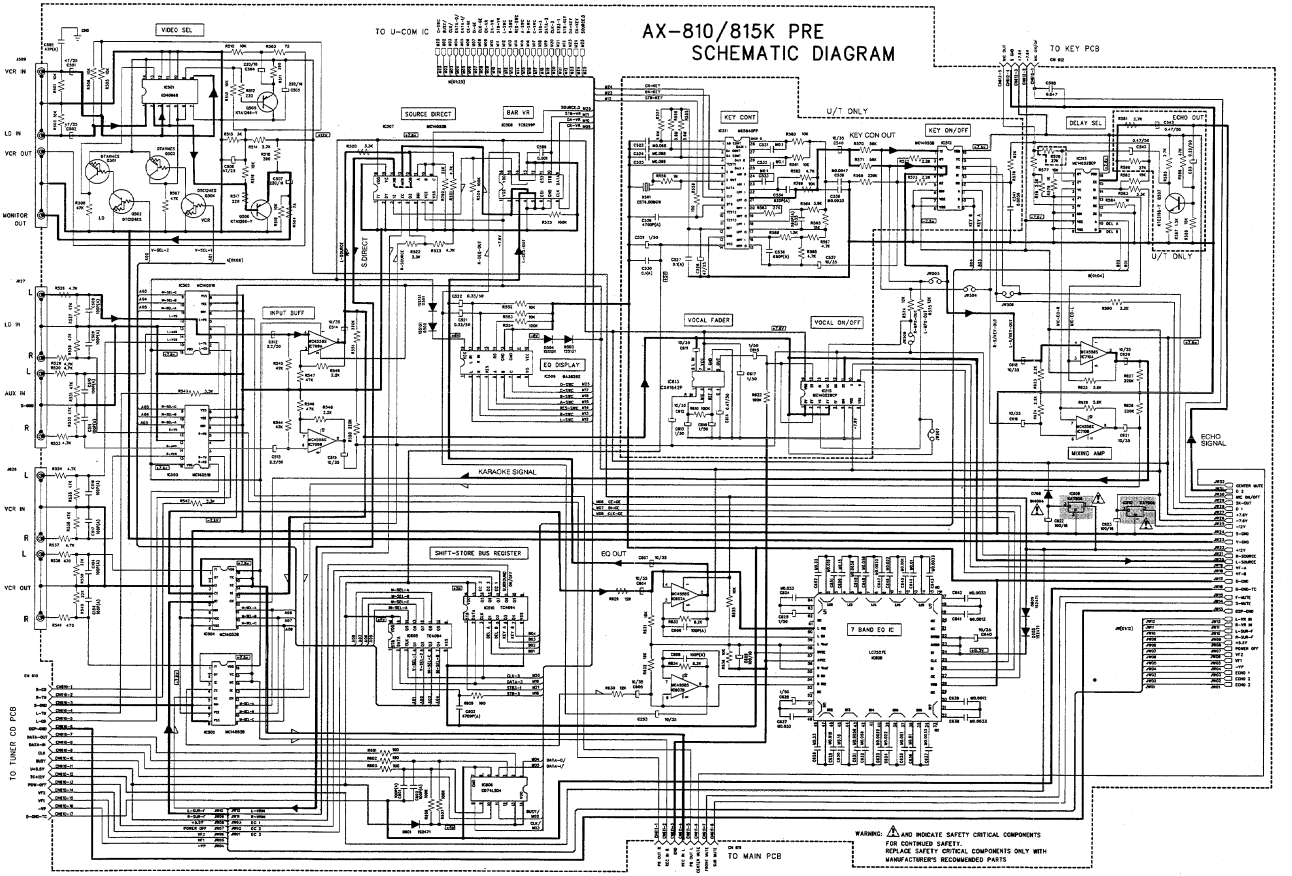
PRE

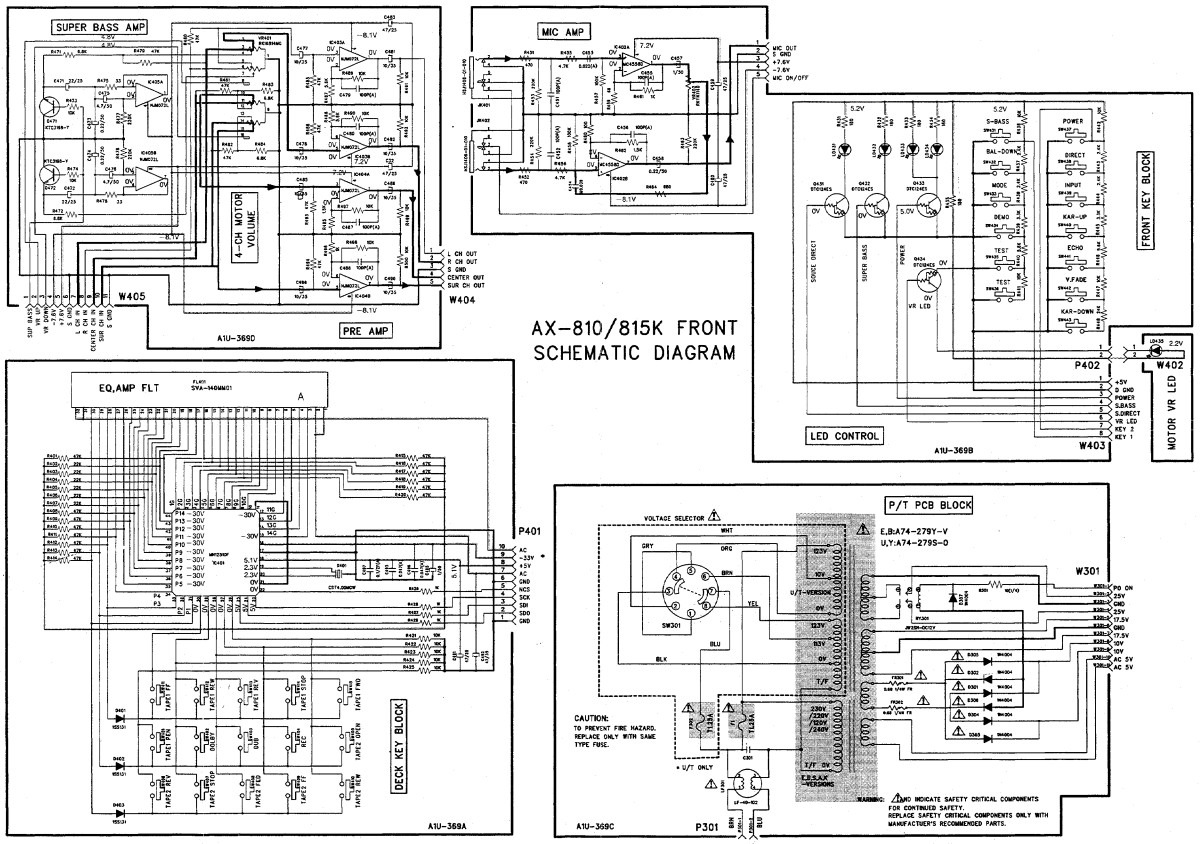

VCR IN
LD IN
VCR OUT
MONITOR OUT
J509
VIDEO SELECTOR
BAR VOL
EQULIZER DISPLAY
7-BAND EQULIZER IC
U/T ONLY
KEY CONTROL CIRCUIT
LD IN
AUX IN
JB27
SOURCE DIRECT
VCR IN
VCR OUT
JB26
SHIFT STORE BUS REGISTER
DELAY SELECT & MIXING AMP CIRCUIT
VOCAL FADER CIRCUIT
IC604:MC14094BCP
IC501
NJW1102F
U-COM IC
M38184MA-271FP
DIGITAL ECHO CIRCUIT
MAIN CONTROL
M65843P
DECK CONTROL CIRCUIT
DECK DOOR CONTROL CIRCUIT
CN611
CN606
CN512
CN601
CN602
CN603
CN608
CN607
CN610
CN614
CN615
CN604
CN605

MAIN

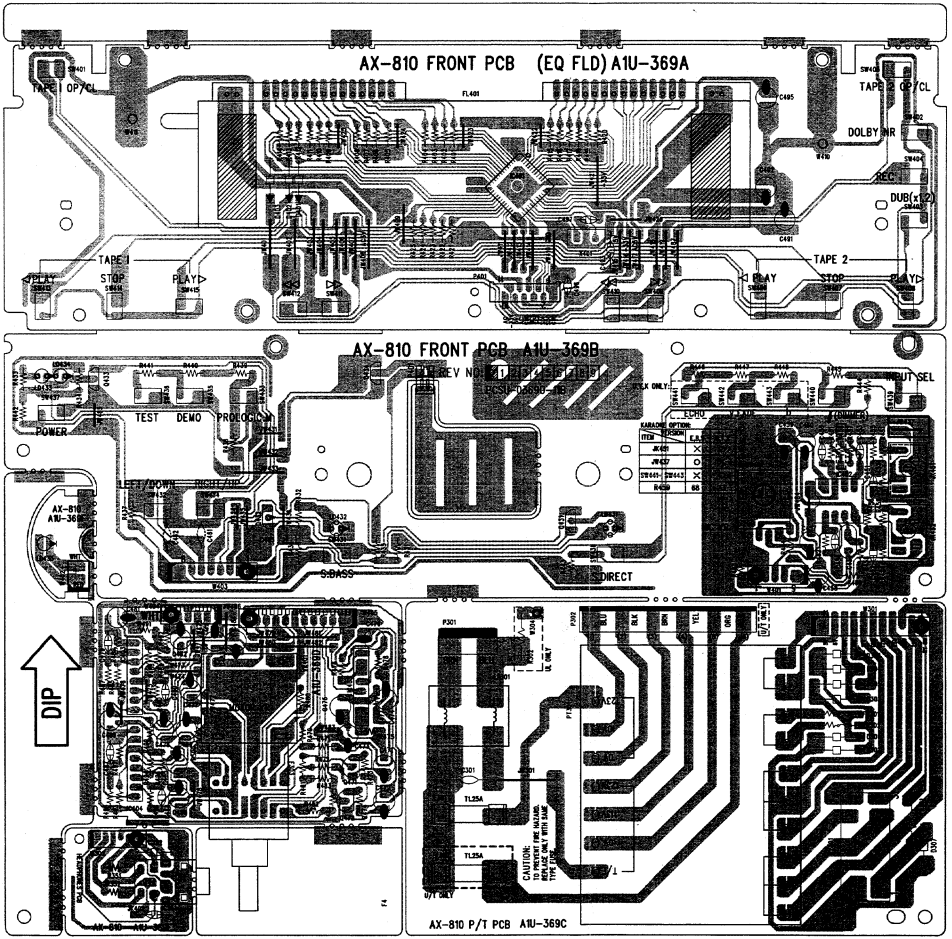

TO 1DECK PB HEAD
CN902
TO 2DECK RP HEAD
CN904
REC-Lch
PB-Lch
GND
PB-Rch
REC-Rch
GND
ERASE
TO POWER PCB
CN-901
OFF RELAY ON
25V
GND
25V
17V
GND
17V
18V
18V
AC
AC
CAUTION:
TO PREVENT FIRE HAZARD, REPLACE ONLY WITH SAME TYPE FUSE.
REC BIAS OSC
BIAS FREQ ADJ
CN905 TO PRE PCB
OSC PWM OUT
CLK 2
DATA 2
STB 2
POWER MUTE
STB(CLOCK)
CLK(DOLBY)
DATA(DOLBY)
POWER ON
REC IN MUTE
PB MUTE
REC MUTE
CN906 TO PRE PCB
PB OUT R(DECK)
REC IN R(DECK)
GND(VR)
REC IN L(DECK)
PB OUT L(DECK)
CENTER MUTE
FRONT MUTE
SUR MUTE
CN907 TO VR PCB
L-IN(AMP)
R-IN(AMP)
GND(VR)
FRONT IN(AMP)
SUR IN(AMP)
CN908 TO H/P PCB
H/P
R OUT
R IN
GND
L IN
L OUT
HEADPHONE JACK
H/P PCB
MAIN SPK
SUR SPK
CENTER SPK
WARNING:
CN902 TO PRE PCB
CN909 TO PRE PCB
96.10.10
AX-810 MAIN SCHEMATIC DIAGRAM


TO MAIN PCB
CN614
CN615
TO FLD PCB
CN605
TO MAIN PCB
CN 607
TO KEY PCB
CN 601
TO 1 DECK (PB)
CN 602
TO 2 DECK (RP
CN 603
TO 1 DECK
MECHA BLOCK
CN 604
TO 2 DECK
MECHA BLOCK
CN605
AC 5V SWITCHING
U-COM IC
E ONLY
U/T ONLY
DIGITAL CLK OSC
PRO LOGIC SURR
DIGITAL COMB IC
TAPE SPEED ADJ.
MOTOR VR CONTROL
SUPER BASS
SURROUND MUTE
CN 606
TO VOL PCB
AX-810 PRE
SCHEMATIC DIAGRAM
96.10.10
WARNING: ⚠ AND INDICATE SAFETY CRITICAL COMPONENTS
FOR CONTINUED SAFETY,
REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH
MANUFACTURER'S RECOMMENDED PARTS

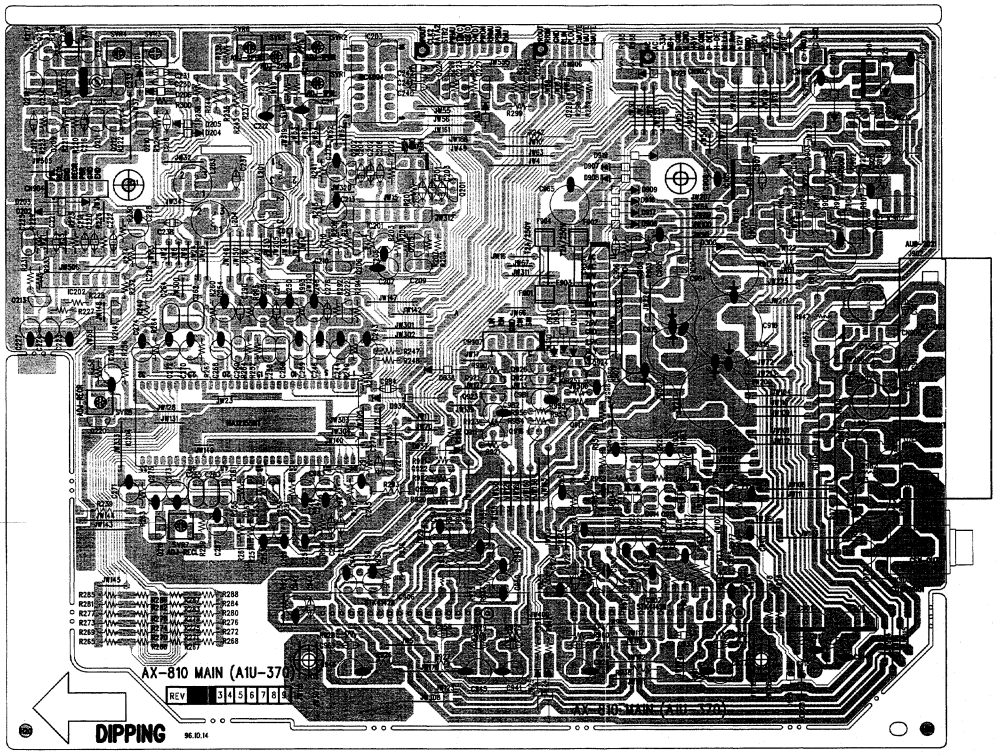

AX-810/815K PRE
SCHEMATIC DIAGRAM
TO U-COM IC
TO KEY PCB
TO TUNER CD PCB
TO MAIN PCB
VIDEO SEL
SOURCE DIRECT
BAR VR
KEY CONT
KEY CON OUT
KEY ON/OFF
DELAY SEL
ECHO OUT
U/T ONLY
INPUT BUFF
EQ DISPLAY
VOCAL FADER
VOCAL ON/OFF
MIXING AMP
ECHO SIGNAL
KARAOKE SIGNAL
SHIFT-STORE BUS REGISTER
EQ OUT
7 BAND EQ IC
VCR IN
VCR OUT
MONITOR OUT
LD IN
AUX IN
WARNING: ⚠ AND INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

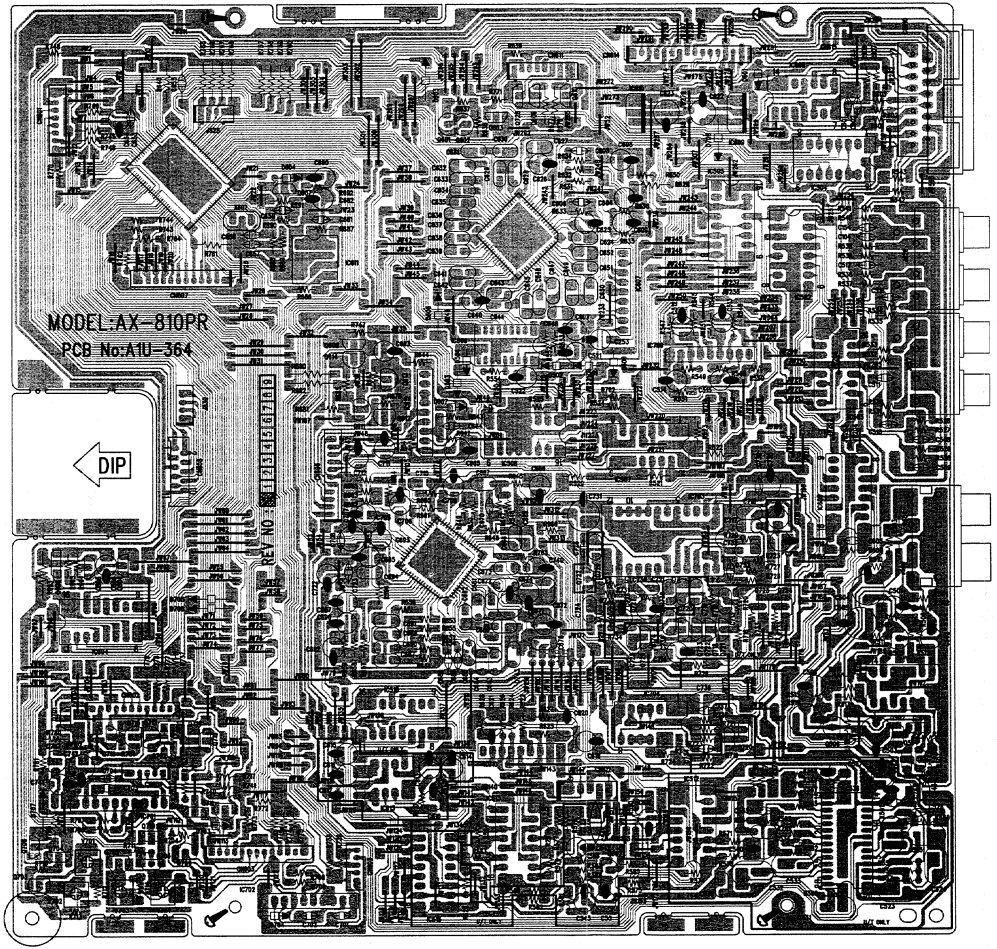

SUPER BASS AMP
4-CH MOTOR VOLUME
PRE AMP
A1U-369D
W405
W404
L CH OUT
R CH OUT
S GND
CENTER OUT
SUR CH OUT
MIC AMP
MIC OUT
MIC ON/OFF
AX-810/815K FRONT
SCHEMATIC DIAGRAM
FRONT KEY BLOCK
POWER
DIRECT
INPUT
KAR-UP
ECHO
V.FADE
KAR-DOWN
S-BASS
BAL-DOWN
MODE
DEMO
TEST
SOURCE DIRECT
SUPER BASS
VR LED
LED CONTROL
A1U-369B
P402
W403
W402
MOTOR VR LED
EQ,AMP FLT
A1U-369A
P401
DECK KEY BLOCK
P/T PCB BLOCK
VOLTAGE SELECTOR
E,B:A74-279Y-V
U,Y:A74-279S-D
W301
CAUTION:
TO PREVENT FIRE HAZARD,
REPLACE ONLY WITH SAME
TYPE FUSE.
A1U-369C
P301
AC CORD

FRONT


AX-810 FRONT PCB (EQ FLD) A1U-369A
TAPE 1 OP/CL
TAPE 2 OP/CL
DOLBY NR
REC
DUB(x12)
TAPE 1
STOP
PLAY
TAPE 2
STOP
PLAY
AX-810 FRONT PCB A1U-369B
POWER
TEST
DEMO
PROLOGIC
INPUT SEL
S.BASS
DIRECT
DIP
AX-810 P/T PCB A1U-369C

MAIN




MODEL-AX-810PR
PCB No:A1U-364
DIP

XII . INFORMATION OF ICs MI-COM

1. AX CONTROL μ-COM

Pin No	Port Name	I/O	Active	Description
1	LEVEL-C	I	—	Center Level Input
2	LEVEL-S	I	—	Surround Level Input
3	BUSY	O	L	Control of Communication with TUNER/CD μ-COM
4	CLK	O	—	Clock of Communication with TUNER/CD μ-COM
5	DATA-O	O	L	Data Output to TUNER/CD μ-COM
6	DATA-I	I	—	Data Input from TUNER/CD μ-COM
7	NCS	O	L	Chip Select (MN 12510, Deck Front)
8	SCK	I	—	Clock for Communication with MN12510
10	SDI	I		Key Data Input from MN12510 Display Driver
9	SDD	O	—	Data Output to MN12510 Display Driver
11	CE-GE	O	H	LC7527E Chip Enable
12	D0-GE	O	H	G.EQ Data Output to LC7527
13	CLK-GE	O	H	Clock Output Port to LC7527
25	C-SWC	O	—	BA3826S Control Port
24	B-SWC	O	—	BA3826S Control Port
23	A-SWC	O	—	BA3826S Control Port
22	RES-SWC	O	H	BA3826S Reset Control
21	R-SWC	O	L	R-Serial Data IN from BA3826S
20	L-SWC	O	L	L-Serial Data IN from BA3826S
14	CK-E25	O	—	Expander 2/5 Clock
15	D0-E25	O	—	Expander 2/5 Data
16	STB-E5	O	H	Expander 5 Strobe
17	CK-VR	O	—	TC 9299 Clock
18	D0-VR	O	—	TC 9299 Data
19	STB-VR	O	H	TC 9299 Strobe
26	PWM OSC	O	H	REC OSC NOR/CrO_2 Control
27	STB-E3	O	H	Expander 3 Strobe
28	DATA-E3	O	—	Expander 3 Data
29	CLK-E3	O	—	Expander 3 Clock
30	STB E2	O	H	Expander 2 Strobe
31	STB-KEY	O	H	M65840 Strobe (KEY Cantrol)
32	D0-KEY	O	—	M65840 Data (KEY Cantrol)
33	CK-KEY	O	—	M65840 Clock (KEY Cantrol)
34	KARAOKE-SEL	I	H	KARAOKE Select (JSB)
35	RESET	I	L	μ-COM Reset
36	Xe-IN	I	—	Sub CLK OSC
37	Xe-OUT	O	—	Sub CLK OSC
38	X-IN	I	—	Main CLK OSC
39	X-OUT	O	—	Main CLK OSC
40	GND	—	—	μ-COM GND

Pin No	Port Name	I/O	Active	Description
41	CLK-EPR	O	—	EEPROM CLK
42	DATA-EPR	O	—	EEPROM Data I/O port
43	R-REC SW	I	L	Reverse Rec Pack Detecter
44	CrO_2 SW2	I	L	$2CrO_2$/Nornal Deter
45	PLAY SW2	I	H	Stop"L"
54	STB-E1	I	H	Expande 4 Strobe
47	F-RECSW	I	L	Forward Rec Pack Detecter
46	PACK-2	I	L	Detect TAPE Loading in TAPE 2 deck
55	D0-E1	O		Expander 4 Data
56	CLK-E4	O		Expander 4 Clock
48	CK-E4	O	—	Expander 4 Clock
49	Data-E4	O	—	Expander 4 Data
50	STB-E4	O	H	Expander 4 Strobe
51	STB-DOL	O	H	HA12155NT DOLBY IC CONTROL STB
52	CLK-DOL	O	—	HA12155NT DOLBY IC CONTROL CLK
53	DATA-DOL	O	—	HA12155NT DOLBY IC CONTROL DATA
65	PL-COM	O	L	Plynger 1/2 B+20n/off Control
73	PL-1	O	H	TAPE1 PLUNGER CONTROL
72	PL-2	O	H	TAPE2 PLUNGER CONTROL
67	POWER MUTE	O	L	Power Mute On/off Control
61	VF-B	O		Vocal Fader Control B (IC402)
62	VF-A	O		Vocal Fader Control A (IC402)
63	F-OPCL2	O		P04H/P03H : STOP P04H/P03L : Not Used P04H/P03L : M-REV P04L/P03H : M_FWD
64	R-OPCL2	O		FLD Filament Power Source ON/OFF Control
57	POW-ON	O	L	Power ON/OFF Control
66	R-OPCL/	O		P02H/P01H : STOP P02L/P01L : Not Used P02H/P01L : M-REV P02L/P01H : M-FWD
58	IN-MUTE	O	L	Input Mute ON/OFF Control
59	PB-MUTE	O	L	Playback Mute Control
69	REC/PB			Non Used
60	REC-MUTE	O	L	REC MUTE ON/OFF Control
68	CENTER MUTE	O	H	SENTER Mute ON/OFF Control
70	FLD-ON	O	L	FLD ON/OFF Control
71	F-OPCL/	O		P02H/P01H : STOP P02L/P01L : Not Used P02H/P01L : M-REV P02L/P01H : M-FWD
75	VR. UP	O		Output to Turn Main Volume Up
74	S. BASS	O	L	Super Bass ON/OFF Control port
76	VR-DOWN	O		Output to Turn Main Volume Down
77	CrO_2-SW1	I	H	Detect 120μs or 70μs from TAPE1
78	PLAY-SW2	I	L	Detect TAPE1 Mecha Operation Stop : L
79	DET1	I	L	Detect Tape Loading in TAPE1 deck
84	CLOSE-1	I	L	Detect TAPE1 Door Close

Pin No	Port Name	I/O	Active	Description
82	CLOSE-2	I	L	Detect Tape2 Door CLOSE
81	OPEN-2	I	L	Detect Tape2 Door EJECT OPEN
83	OPEN-1	I	L	Detect Tape1 Door EJECT OPEN
80	REEL-1	I	—	Rotation Reel Pulse Detection Input (TAPE1)
85	REEL-2	I	—	Rotation Reel Pulse Detection Input (TAPE2)
86	SOURCE. D	O	H	Source Direct ON/OFF Control
87	MUT-PRE	O	H	Pre Mute On/OFF Control
88	MUT-SUR	O	H	Surround Mute ON/OFF Control
89	V_{EE}	—	—	GND
90	HEAD-PHONES	I		Input to Detect Headphones Input and Turn SURROUND MUTE ON/OFF
91	V_{CC}	—	—	5V Power Source
92	PROTECT	I	L	Input to Detect Operation for Protection
93	AD GND	—	—	Analog GND
94	V REF	I	—	Reference Voltage of A/D Converter
95	MIC ON	I	H	Input to determine Mic Jack input
96	KEY-1	I	—	Input to Detect Key Input (A/D)
97	KEY-2	I	—	Input to Detect Key Input (A/D)
98	LEVEL-L	I	L	Input to determine recorded or blank space of tape. (L: blank space)
99	LEVEL-R	I	L	Input to determine recorded or blank space of tape. (L: blank space)
100	O-SWC	O	—	BA3826S Control port

Ⅰ. SPECIFICATION

MODEL NO: SR-810

Type	2Way Bass Reflex
Component	Woofer : TAU-13W04001
	Tweeter : TAU-03T04017
Rated Power Input	40W
Maximum Power Input	60W
Dimension	209(W)×320.5(H)×256.5(D)mm
Weight	5.1Kg/PC

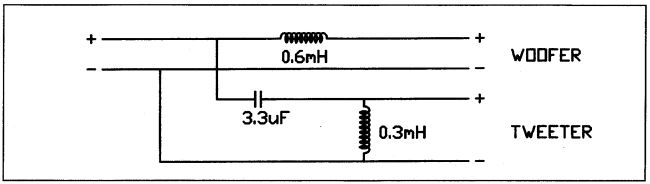
MODEL NO: SR-C80

Type	2Way Bass Reflex
Component	Woofer : TAU-08W03001
	Tweeter : CT-50N03T
Rated Power Input	30W
Maximum Power Input	50W
Dimension	270(W)×94(H)×290(D)mm
Weight	2.5Kg/PC

MODEL NO: SR-S80

Type	2Way Bass Reflex
Component	Woofer : TAU-08W03001
	Tweeter : 50N01T
Rated Power Input	30W
Maximum Power Input	50W
Dimension	140(W)×235(H)×123(D)mm
Weight	1Kg/PC

MODEL NO: SR-810



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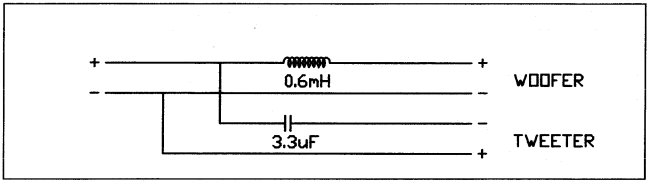
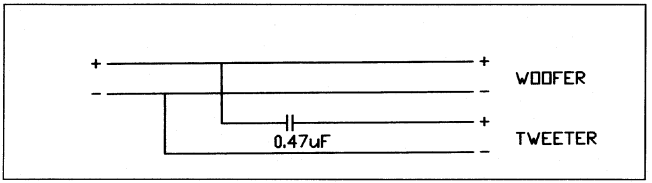
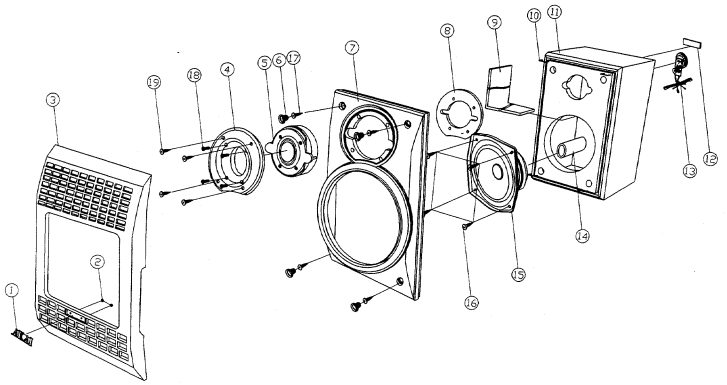


MODEL NO: SR-S80

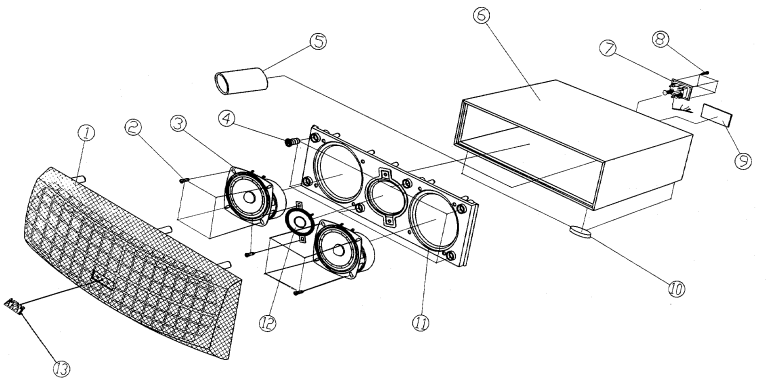


Ⅲ. PARTS LIST



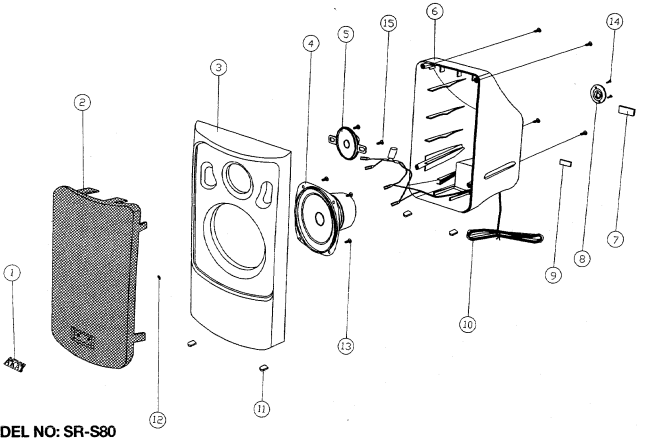
MODEL NO: SR-810

Ref. No	Part No.	Part Name	Description
1	MJSF-00460-ZZ4	BADGE	
2	MMSC-00400-004	BUSH BADGE	
3	MJSG-00370-001	FRAME NET	
4	MJUF-00050-ZZ2	DECORATION TW	
5	TAU-03T04017	SP.TWEETER	TAU-03T04017
6	MJSG-06100-004	HOOK	
7	MJSF-00710-ZZ1	COVER FRONT	
8	MRSG-07720-004	CUSHION TW	TOILON
9	MRSG-07740-004	SPONGE	165×470×10t
10	MMSC-00272-004	AIR STAPLE	4×19
11	AMSW-02500-ZZ2	SP, CABINET MDF&PB 12T	209.5(W)×320.5(H)×230(D)mm
12	YLSP-G3000-01B	BACK LABEL	
13	NETS-01660-X20	NET WORK	TN-810
14	MGSG-06560-004	TUBE PAPER	PAPER ø45×ø50×120
15	TAU-13W04001	SP. WOOFER	TAU-13W04001
16	XSWB-40150-ZB1	SCREW-WOOD	FE-ZB BHT1 4×15
17	XSWF-35180-ZY1	SCREW-WOOD	FE-ZY FHT1 3.5×18
18	XSMP-35060-ZB0	SCREW-MACHINE	FE-ZB PHM 3.5×6
19	XSWB-30250-ZB1	SCREW-WOOD	FE-ZB BHT1 3×25



MODEL NO: SR-C80

Ref. No	Part No.	Part Name	Description
1	MJSG-00390-001	COVER FRONT	PS
2	XSTB-35120-ZY2	SCREW TAPPING	Fe BHT2T 3.5×12 FE-ZY
3	TAU-08W03001	SP, WOOFER	
4	MJSG-06100-004	HOOK	PS
5	MGSG-06570-004	TUBE PAPER	PAPER ø38× ø43×50
6	AMSW-02490-ZZ2	SP, CABINET	PB
7	NETS-01680-X20	TERMINAL & NET WORK	
8	XSWB-30120-ZB1	SCREW WOOD	Fe-ZB FHT1 3×12
9	YLSP-G4000-01B	LABEL BACK	
10	MRSG-07710-004	FOOT	RUBBER ø25×4.5
11	MJSG-00400-001	BAFFLE BOARD	PS
12	SPKT-00890-A70	SP, TWEETER	
13	MJSF-00460-ZZ4	BADGE-AKAI	



MODEL NO: SR-S80

Ref. No	Part No.	Part Name	Description
1	MJSF-00460-ZZ4	BADGE-KOHEL	AL
2	MMSF-00410-ZZ3	GRILLE COVER	
3	MJSF-00651-ZZ1	COVER FRONT(L)	
4	TAU-10W03001	SP, WOOFER	
5	SPKT-00900-A70	SP, TWEETER	
6	MJSF-00660-ZZ1	COVER BACK	PS
7	YLSP-G5000-01B	BACK LABEL	
8	MMSC-00430-004	HANGER	
9	MASF-00390-ZZ4	PLATE PVC	
10	WSD2-24G0A-301	WIRE SP, CORD(D)	17/0.16, 2P, L=2700mm CAPACITOR: 2.8μF
11	MRSG-07380-004	CUSHION BOTTOM	
12	MMSC-00400-004	BUSH BADGE	
13	XSTB-35120-ZY2	SCREW TAPPING	FE-ZY BHT2T 3.5×12
14	XSTB-30080-ZB4	SCREW TAPPING	FE-ZB BHT2T 3×8
15	MMSC-00320-004	SCREW COVER	FE-ZY D3×D9.5W/W×7